

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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COMMSCOPE TECHNOLOGIES, LLC  
Petitioner,

v.

COMMUNICATIONS COMPONENTS ANTENNA INC.,  
Patent Owner

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Patent No. 8,311,582  
Issue Date: November 13, 2012  
Title: ASYMMETRICAL BEAMS FOR SPECTRUM EFFICIENCY

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**PETITION FOR *INTER PARTES* REVIEW OF  
U.S. PATENT NO. 8,311,582**

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